CATALOGUE

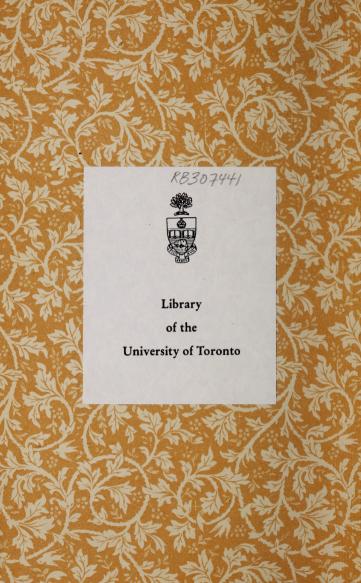
OF

THE OTTO HIGEL GO.

LIMITED

TORONTO, ONT.

1906



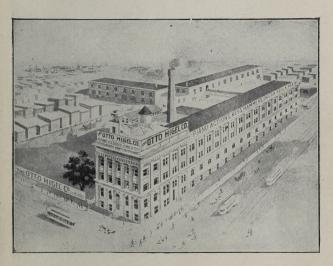


ILLUSTRATED AND DESCRIPTIVE

CATALOGUE

OF GRAND AND UPRIGHT PIANO ACTIONS, KEYS
AND HAMMERS

ORGAN KEYS, REEDS AND REED BOARDS, PIANO AND ORGAN TOOLS AND SUPPLIES



The Otto Higel Co., Limited

OFFICE AND FACTORY

Corner of King and Bathurst Sts., TORONTO, CAN.

1906

Telephone PARK 194 Cable Address
"HIGEL" Toronto



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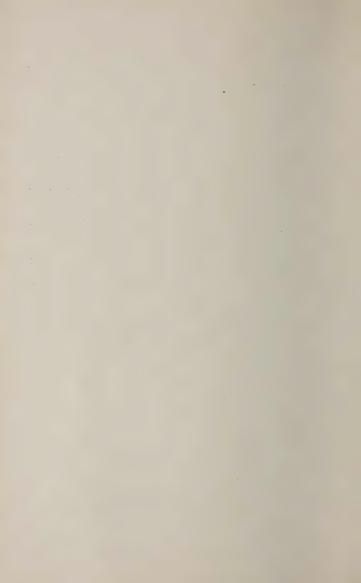
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Officers of the OTTO HIGEL CO., Limited



NOTICE

We respectfully ask that you kindly acknowledge receipt of this catalogue that we may have a complete record of the location of every copy, in case additions or changes are made.

THE OTTO HIGEL CO., Limited.

TO OUR PATRONS

We take pleasure in presenting you this catalogue and desire to say a few words on the subject of the manufacture of Piano Actions, the methods we have

pursued and what materials are used.

Our Factory, which is located on the corner of two principal thoroughfares, has light on all four sides. This is essential to do fine work. The equipment consists of the very latest up-to-date machinery. Most of the automatic machinery has been invented and made by ourselves, as we have a first-class machine shop in connection with our Action Plant. This is of the very greatest importance, as it enables us to keep all our tools and machinery in constant perfect condition. As a matter of vital necessity and self-preservation, unerring accuracy is absolutely essential to produce perfect uniformity in such delicate parts. Owing to the progressive development and close application our Actions have attained the acknowl-

edged superiority, and the merits of our goods is our

best advertisement.

All materials we buy are of the very best money can secure, as we believe only the best is good.

Our workmen are efficient, skilled mechanics; none other can hold positions in our factory, and are under the constant personal supervision of experienced foremen. It is, therefore, natural that our Action has attained such a high position. Anyone buying a piano should see that it contains an Otto Higel Action, as our guarantee goes with every Action we make.

We can procure everything at short notice, and anything not mentioned herein can be furnished on application. Order all goods by catalogue numbers and names to prevent errors and delays.

NOTICE

Prices are not guaranteed and are subject to change without notice. All goods are sold F.O.B. Toronto, unless otherwise agreed by special arrangement.

All goods are shipped at buyer's risk. All claims for shortage must be made within ten days after receipt of goods.

All contracts and promises are contingent upon strikes, accidents or other causes beyond our control.

TERMS

All orders from parties unknown to us must be accompanied with cash. If goods are to be shipped C.O.D. a sufficient deposit to cover express charges both ways must be enclosed with order.

Accounts only opened with parties of high commercial rating or upon approved trade references. On purchases amounting to less than \$1.00 the cash must be sent with the order.

All cheques, express or postal orders should be made payable to the Company and not to individuals.

All remittances are to be made at par in Toronto. On C.O.D. deliveries, collection charges are added.

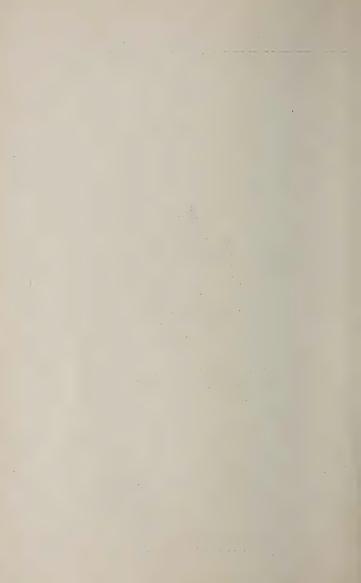
If goods are to be mailed, include a sufficient amount for postage or registration. Any surplus will be returned with the bill. To insure safe delivery by mail, packages should be registered and we will do so unless requested to the contrary.

To prevent delay, it is **very important** that the full name and address is given on all correspondence. Always give definite shipping instructions with every order, stating plainly if by mail, Canadian or Dominion express, freight or otherwise. Packing cases or boxing will be charged at cost.

All accounts must be settled on the first of the month following delivery of goods. Accounts overdue are subject to sight draft. Address all communications to the Company.



We have adopted the above Trade Mark which will be put on all Actions manufactured by us.





UPRIGHT PIANO ACTIONS PARTS FELTS, CLOTHS

AND

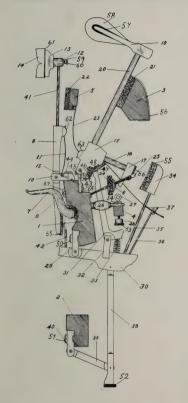
HARDWARE

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE





UPRIGHT ABSTRACT PIANO ACTION



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MADE IN CANADA

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HOW TO ORDER UPRIGHT PIANO ACTIONS

- 1. Send wooden rod showing the centre of every note and the centre of each bracket, also the centre of the damper rod crank. If double damper rods are required. Show the centre of treble crank.
- 2. Give distance from bottom of key frame to the striking line of the hammers.
- 3. Give distance from the striking line of the hammers to centre of bolt hole for top of the bracket.
- 4. Give length of bracket bottom bolt projecting over key bottom.
- 5. State if varnished or metal covered hammer rail is desired.
- 6. Give distance hammer rail projects past the end bracket.
- 7. Give the style of action by catalogue number and state if brass or wooden flanges are to be used on hammer butts.
- 8. If bass damper wedges are required give number of single and double strings in bass section, also the size of wedges, viz.: 13%" or 134", also style of bass plate by catalogue number.
 - 9. State if all maple or part cedar shanks are wanted.
- 10. If sustaining attachment is required give distance from centre of crank to first note.
- 11. If a dowell action is required give exact length of dowell over all.
- 12. The following parts are supplied with all actions and are included in the price.

95 Maple Hammer Shanks.

1 set Treble Damper Heads.

1 set Damper Blocks.

1 set Damper Plates.

1 set Capstan Screws with Abstract Action.

1 set Dowells with Dowell Action.

REPAIRING OF ACTIONS

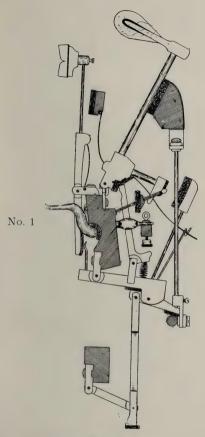
We repair old or damaged actions, or we will make any parts to order.

Always send us samples.

We cannot give estimates on Action repairs, as it is very difficult to describe what may be necessary to put the Action in good order.

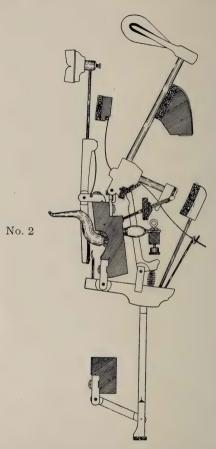
In ordering state whether old parts should be repaired if possible.

If a first-class job is wanted we advise that entire new parts are used. We will try to use the brackets and frame if possible.



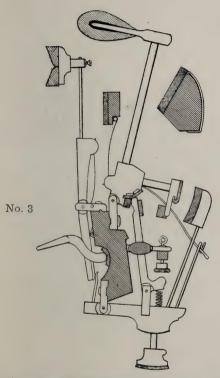
Style 1.—Abstract Piano Action, with Lost Motion Attachment. Brass or Wood Flanges as required. With or without Stop Rail. Price on application.

MADELIN CANADA

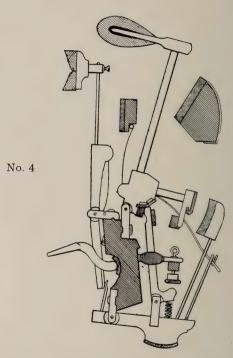


Style 2—Abstract Piano Action, Brass or Wood Flanges as required, with or without Stop Rail. Price on application.

MADE IN CANADA



Style 3—Dowell Piano Action, with extension Wipp Brass or Wood Flanges as required. With or without Stop Rail. Price on application.



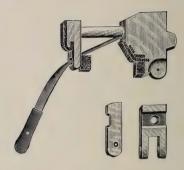
Style 4—Small Dowell Piano Action, Brass or Wood Flanges as required. With or without Stop Rail. Price on application.



No. 5

The above illustration shows the Upright Piano Action fitted with Billings Patent Spring Metal Flanges. Price on application.

HAMMER BUTTS AND FLANGES

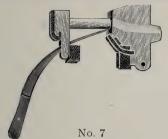


No. 6

A—Pin Butts and Flanges complete, per set of 90 8 A—Pin Butts and Flanges complete, doz	\$5.00 .85 .10
B—Pin Butts without Flanges, per set of 90 B—Pin Butts without Flanges, per dozen B—Pin Butts without Flanges, each	3:50 .65 .08
C—Butt Flanges only with Centre Pins fitted, per set of 90	1.50 .30 .04
D—Butt Flanges made to order with Centre Pins fitted, per set of 90	2.25

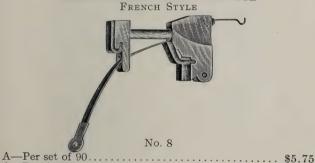
When ordering Butts state with or without felt on Catches. Butts made to order charged extra.

BRASS FLANGE BUTTS COMPLETE



Per set of 90	 \$5.00
Per dozen	 . 85
Each	 .10

BRASS FLANGE BUTTS COMPLETE



A—Per dozen	. 95
A—Each.	.10
B—Silk Loops for same, per set of 90	
D Citt T - C	.75
B—Silk Loops for same, per dozen	.15
C—We also carry the Pin Butt (French style) in stock,	
per set of 90, complete with Flanges	5.25
Per dozen	. 90
Each	.10
D—Flanges with Silk Loops, per set of 90	
D Diagram with Gills Loops, per set of 90	2.20
D—Flanges with Silk Loops, per dozen	. 45

MADE IN CANADA

HAMMER BUTT BRASS FLANGES COMPLETE



No. 9

A—Made to order only, per set	\$2.50
A—Made to order only, per section	1.50
B—Brass Flanges, for single note, per dozen	. 60
B—Brass Flanges, for single note, one only	. 10

All the above include Plates and Screws.

HAMMER BUTT BRASS FLANGE PLATES

No. 10





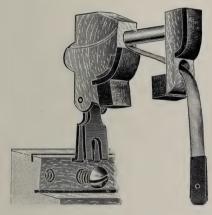


Style 2

Brass	Flange	Plates,	per	set			 					\$0.45
Brass	Flange	Plates,	per	dozen			 			 		. 10
Brass	Flange	Screws,	per	set		,	 					.20
Brass	Flange	Screws,	per	dozen	١		 					. 05

In ordering state which is required.

BILLINGS PATENT SPRING METAL FLANGE



No. 11

Showing how it can be removed without taking the screw out of the Rail.

Butts	complete	without	Flanges,	per set of	90	\$5.00
Butts	complete	without	Flanges,	per dozen.		. 85
Butts	complete	without	Flanges,	each		.10

BILLINGS PATENT SPRING METAL FLANGES



Butt, Wipt	and Tongue	Flanges,	per set of 90	\$1.25
Butt, Wipt	and Tongue	Flanges,	per dozen	.30
Butt, Wipt	and Tongue	Flanges,	each	.04

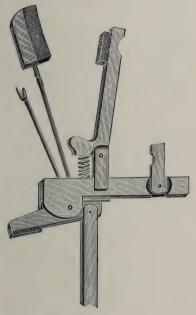


	per set of 70	
Damper Flanges,	per dozen	.40
Damper Flanges	each	05



Fly Flanges,	per set of 90	\$1.35
Fly Flanges.	per dozen	. 35
Fly Flanges.	each	. 04

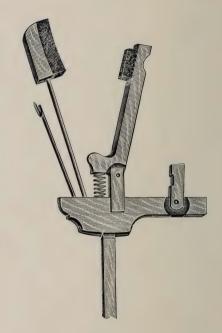
USED ON STYLE 1.



No. 12

Lost	Motion	Wippen	without	Abstracts,	per set of 90	\$5.50
Lost	Motion	Wippen	without	Abstracts.	per dozen	90
Lost	Motion	Wippen	without	Abstracts,	each	.10

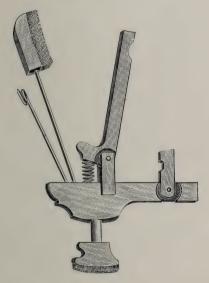
USED ON STYLE 2.



No. 13

Abstract	Wippen	without	Abstracts,	per	set of	90	\$5.25
Abstract	Wippen	without	Abstracts,	per	dozen		. 90
Abstract	Wippen	without	Abstracts,	each	1		.10

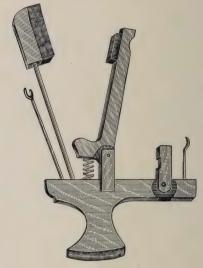
USED ON STYLE 3.



No. 14

Extension	Wippen,	per set of 90	\$6.25
Extension	Wippen,	per dozen	1.10
Extension	Wippen.	each	.15

USED ON STYLE 3 INSTEAD OF THE EXTENSION.

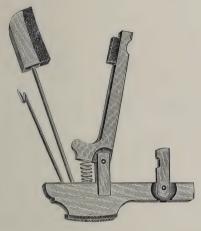


No. 15

High	Wippen,	per	set	of	90	 						 	,		\$5.50
High	Wippen,	per	doz	en				 				 			. 90
High	Wippen,	eacl	h					 				 			.10

These Wippen are made in three heights. In ordering send sample or sketch.

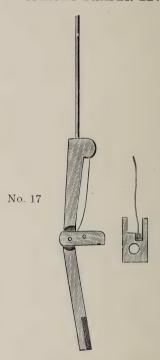
USED ON STYLE 4.



No. 16

Low	Wippen,	per set of 90	\$5.25
Low	Wippen,	per dozen	.90
Low	Wippen,	each	.10

UPRIGHT DAMPER LEVERS

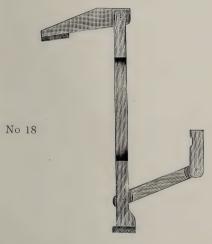


A—Damper Levers complete, per set of 70	\$3.00
A—Damper Levers complete, per dozen	.75
A—Damper Levers complete, each	.10
B—Damper Flanges with springs, per set of 70	1.20
B—Damper Flanges with springs, per dozen	.35

When ordering Flanges only, state if strong, medium or weak springs are wanted.

UPRIGHT LOST MOTION ACTION ABSTRACTS

COMPLETE WITH TONGUES AND FLANGES.



A—In Standard Sizes, per set of 90	\$4.25
A—In Standard Sizes, per dozen	.75
A—In Standard Sizes, each	.10
B—Tongues and Flanges only, per set of 90	\$1.75
B—Tongues and Flanges only, per dozen	. 35
B—Tongues and Flanges only, each	.05
C—Flanges only, per set of 90	\$1.25
C—Flanges only, per dozen	25
C—Flanges only, each	.04

Abstracts when made to order are charged extra.

UPRIGHT ACTION ABSTRACTS

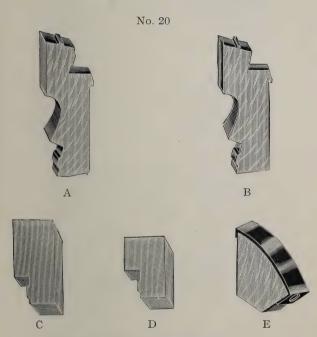


No. 19

In Standard	Sizes,	per	set	of	90.	 	 	 			 	\$3.60
In Standard												
In Standard	Sizes	eac1	h									.10

Price on Tongues and Flanges the same as on page 31. Abstracts when made to order are charged extra.

UPRIGHT ACTION RAILS



A—Main Action Rail for Wood Flanges. B—Main Action Rail for Brass Flanges.

C—Large Bottom Rail.
D—Small Bottom Rail.
E—Hammer Rail, with Shell or Varnished.

For prices and how to order see next page.

Main Action Rail bored to scalePrice	\$0.80
If fitted with single damper rod and propsPrice	1.60
If fitted with double damper rod and propsPrice	2.00
Large Bottom Rail, bored to scalePrice	. 65
Small Bottom Rail, bored to scalePrice	.60
Hammer Rail, either with shell or varnished, covered	
with cloth and hooks attachedPrice	1.50

If special shapes of rails are required other than our standard sizes, an extra price will be charged.

In ordering, send us the old rail or a wooden rod showing the centre of each note.

UPRIGHT ACTION RAILS











F-Plain Spring Rail.

G—Standard Spring Rail.

H—Regulating Rail.

I—Stop Rail Style A.

J-Stop Rail Style B.

For prices and how to order, see next page.

Spring Rail No. 6, covered with feltPrice	\$0.30
Spring Rail No. 7, bored to scale, with springs attached	
and covered with feltPrice	. 85
Regulating Rail, bored to scale, with screws, buttons	
and punches, completePrice	.85
Stop Rail No. 9 or 10, with screws, and covered with	
feltPrice	

In ordering, send old rail or a wooden rod showing centre of each note.

If special shapes have to be made an extra charge will be made.

To save express charges, the rod can be sent in sections by mail. Two feet is the longest parcel the mail will carry.

UPRIGHT ACTION DAMPER BLOCKS



The long blocks are used for middle and treble sections. In ordering, specify the number of short and long blocks required, also the style.



Brass Damper Block Sockets with screws, per set of 70 $\,$ \$0.50 Brass Damper Block Sockets with screws, per dozen. . . .15

UPRIGHT ACTION DAMPER BLOCKS





The long blocks are used for middle and treble sections. In ordering specify the number of short and long blocks required, also the style.



Special Brass Damper Sockets and Screws, per set of 70 \$0.75 Special Brass Damper Sockets and Screws, per dozen. .20

UPRIGHT ACTION DAMPER HEADS



No. 22



In ordering specify if for style 1 or 2. The difference is in the size of the holes.

UPRIGHT ACTION DAMPER PLATES FOR BASS SECTION





No 23





Style No. 1. Style No. 2.	
Style 1—Small Square Bass Plates, without felt, per set of 30	\$0.30
Style 1—Small Square Bass Plates, without felt, per dozen	
Style 2—Long Bass Plates, covered with felt, per set of	
30 Style 2—Long Bass Plates, covered with felt, per doz.	.20
If required without felt, per set of 30	.30 .15

In ordering specify for which style of Damper Block they are required.

UPRIGHT ACTION DAMPER BLOCKS





No. 24



The small blocks are used for blass section.

The large blocks are used for middle and treble sections.

In ordering specify the number of small and large blocks required.

UPRIGHT ACTION DAMPER HEADS

No. 25



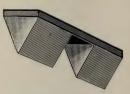


Damper Heads for square blocks, covered with felt, per	
set \$1.0	00
We also furnish the wooden part only for Bass Plates.	
Per set of 30	40
Per dozen	20
In ordering wooden part only state if for Bass Plates.	

UPRIGHT ACTION BASS DAMPER WEDGES

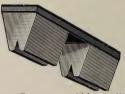


No. 26



A-For Single Strings

B-For Double Strings.



C-For Three Strings (Also called Tricords)

extra.

In ordering specify how many of each are required and what width.

UPRIGHT ACTION CLOTHS AND FEL1S

A—Hammer Rail Cloth in strips 54" long, 1½" wide, in Green or Olive, per dozen	\$3.00
A—Hammer Rail Cloth in strips 54" long, 1½" wide, in Green or Olive, each	.30
B—Wipp or Abstract Cloth in strips 30½" long, 1" wide, in Brown, Green or Olive, per dozen	2.75
B—Wipp or Abstract Cloth in strips $30\frac{1}{2}$ " long, 1" wide, in Brown, Green or Olive, each	.25
C—Damper Lever Cloth in strips 28" long, 1" wide, per dozen	2.25
C—Damper Lever Cloth in strips 28" long, 1" wide, Each	.20
D—Bushing Cloth in strips 16" long, $\frac{5}{16}$ " wide, per	.40
D—Bushing Cloth in strips 16" long, $\frac{5}{16}$ " wide, each.	.05
Three strips will be sufficient for one set of Flange We carry two thicknesses in stock, for rebushing Wipp and Fly Flanges the thicker bushing should be For all other centres the thinner bushing will answer I In ordering specify which thickness.	Butt, used.
E—Butt Cloth for under Leather in strips 34" long, $\frac{3}{16}$ " wide, per dozen	\$0.90
E—Butt Cloth for under Leather in strips 34" long, $\frac{36}{16}$ " wide, each	.10
F—Butt Felt in strips $34''$ long, $\frac{5}{16}''$ wide, per dozen Butt Felt in strips $34''$ long, $\frac{5}{16}''$ wide, each	.90 .10
G—Catch Felt in strips 34" long, 3%" wide, per dozen G—Catch Felt in strips 34" long, 3%" wide each	.90 .10
H—Fly Felt in strips $34''$ long, $\frac{9}{16}''$ wide, per dozen H—Fly Felt in strips $34''$ long, $\frac{9}{16}''$ wide, each	.90
I—Spring Rail Felt in strips 54" long, 7/8" wide, per dozen	1.20
 I—Spring Rail Felt in strips 54" long, 7/8" wide, each J—Back Check Felt, Green or Olive in strips 34" long, 	.15
J—Back Check Felt, Green or Olive in strips 34 long, 1½" wide, per dozen	2.75
11/4" wide each	0.5

UPRIGHT ACTION CLOTHS AND FELTS	
WPRIGHT ACTION CLOTHS AND FELTS K—Tapered Damper Head Felt in strips 20" long, 134" wide, per dozen K—Tapered Damper Head Felt in strips 20" long, 134" wide, each L—Muffler Felt for soft stop or practice pedal in strips of 55" long, 3" wide, per dozen L—Muffler Felt for soft stop or practice pedal, in strips of 55" long, 3" wide, each M—Scarlet Name Board Felt in pieces 50" long, 7%"	\$3.00 .30 3.40
wide, per dozen M—Scarlet Name Board Felt in pieces 50" long, 7/8" wide, each	. 10
N—Rubbing Felt in pieces 6" long, 4" wide, per dozen N—Rubbing Felt in pieces 6" long, 4" wide, each O—Polishing Felt in pieces 6" long, 4" wide, per dozen. O—Polishing Felt in pieces 6" long, 4" wide, each	. 40 . 03 . 30 . 03
UPRIGHT ACTION LEATHER AND PUNCHING	S
 A—Buckskin for covering Butts, shaved to an even thickness, in strips 1/8" wide, sufficient for one set, per set. Per dozen sets. B—Buckskin, for covering Catches, shaved to an even thickness 1 1/8" wide, sufficient for one set, per set Per dozen sets. C—Capping Leather, for covering Hammers, in strips 3" wide per lineal foot, per foot. 	\$1.00 9.00 .78 7.00
thickness, in strips 7/8" wide, sufficient for one set, per set	9.00 .78 7.00

UPRIGHT ACTION PUNCHINGS, BRIDLES, ETC.

C—Thin Scarlet Felt Punchings, for Jack Springs,	
per dozen sets	\$0.50
per dozen sets	
set of 90	.05
-	



No. 30

Bridle Straps complete, per set of 90	\$0.30
We can supply these in red or dark leather tips.	

UPRIGHT ACTION PARTS



No. 31

A—Back Checks with wires complete, per set of 90	\$1.60
Per dozen B—Back Checks, without wires, per set of 90	1.25
Per dozen	.25

No. 32

Back Check Wires, per set of 90 \$0.2	25
Per dozen)5
We can supply these also, threaded on both ends. I ordering specify which is required	n

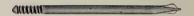
UPRIGHT ACTION DOWELLS



No. 33

With wires complete, per set of 90	\$1.25
Per dozen	.25
In ordering give length over all.	
Dowells without wire, per set of 90	. 80
Per dozen	.20
We can supply Dowells of the following sizes (woo	d part
only) 1", 1¼", 1½", 1¾", 2", 2¼", 2½".	

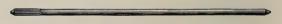
DOWELL WIRES



No. 34

Dowell Wires in sizes from	$1\frac{3}{4}$ " to $2\frac{3}{4}$ " long, per set	\$0.35
Dowell Wires in sizes from	3" to 4" long, per set	. 40

DAMPER LEVER WIRE



No. 35

Per set of 70	 \$0.20
Per dozen	 . 05

DAMPER SPOONS

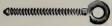


No. 36

Per	set of 70	 	 	\$0.20
Per	dozen	 	 	.05

We also carry them with threaded end. In ordering specify.

REGULATING RAIL SCREWS



No. 37

 Per set of 90...
 \$0.15

 Per dozen...
 .04

REGULATING RAIL BUTTONS



No. 38

 Per set of 90...
 \$0.12

 Per dozen...
 .03

REGULATING RAIL PROPS

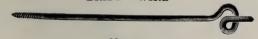


No. 39

 Per dozen
 \$0.15

 Each
 02

BRIDLE WIRE



No. 40

 Per set of 90...
 \$0.15

 Per dozen...
 04

HAMMER RAIL HOOKS



No. 41

BRASS HAMMER RAIL HOOKS

USED IN BASS END OF RAIL



 Per dozen.
 \$0.60

 Each.
 .08

HAMMER RAIL LIFTER

(NICKEL PLATED) INCLUDING TWO SCREWS



No. 43



Style 1

Style 2

\$0.20

HAMMER RAIL PLATE

INCLUDING THREE SCREWS



Each...... \$0.05

HAMMER RAIL THIMBLE

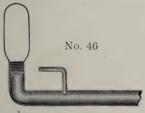
INCLUDING ONE SCREW





Per dozen	 	\$0.45
Each	 	

DAMPER ROD (Nickel Plated)



Send size of each when ordering.

DAMPER ROD NUT

INCLUDING SCREW



Each..... \$0.05

BRASS CAPSTAN SCREWS



l ⅓″ long.

 Per set of 90...
 \$0.85

 Per dozen...
 20

JACK SPRINGS

No. 49 WMMM

Per set of 90	 	 	 	 	 \$0.40
Per dozen	 	 	 	 	 .10

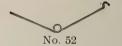
DAMPER FLANGE SPRINGS



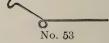
SPRING RAIL SPRING



SPECIAL JACK SPRINGS



SPECIAL BUTT SPRINGS



We also make any style of special spring to order.

SPRING RAIL PROP (Nickel Plated)

No. 54
Style 1—Per dozen. \$1.20 Each. .15
Style 2—Whitened only, per dozen. \$0.45 Each. .05
LOST MOTION ATTACHMENT COMPLETE WITH SCREWS TO SUIT
No. 55 Each \$0.85
SUSTAINING LEVER WIRE WITH BUSHING CLOTH TIP
No. 56
Per set of 70. \$0.75 Per dozen. .15
UPPER DAMPER LEVER WIRES
No. 57
Per dozen \$0.25 Each 03
MADE IN CANADA

STOP RAIL SCREWS

RIGHT AND LEFT THREAD

No. 58 Two lengths.

SUSTAINING DAMPER ROD FLANGES



No. 59

In standard sizes, each......\$0.15

We make these in several shapes. In ordering send sample. If made to order an extra price will be charged. We make several styles.

ROCKERS FOR UPRIGHT ACTION



No. 60

CENTRE PINS

No. 61

We only carry German Silver Pins in stock. The following are standard sizes always kept in stock:—No. 18, 20, 20 $\frac{1}{4}$, 20 $\frac{1}{2}$, 20 $\frac{3}{4}$, 21, 21 $\frac{1}{2}$, 22, 23, 24, 25, 26, 27, 28, 29. In ordering specify or send sample.

Per	set	of	90	0.		٠	٠								 				 			\$0.10
Per	1/4	lb.	٠.		 ٠	٠	·			٠					 		٠		 		٠	. 30

FILLISTER HEAD ACTION SCREWS

No. 62

For Butts, Wipps and Tongues, size 3/4 No. 8 is used.

A—per set of 90. \$0.15

Per dozen 03

FILLISTER HEAD ACTION SCREWS

If Screws overturn in Butts, Wipps or Tongues we supply a larger screw, viz., 3/4 No. 9.

Everybody should have some of these on hand.

For Damper Lever Flanges 11 No. 7 is used.	
C—Per set of 90.	
For Regulating Rail Props and Damper Rod $5\%~\mathrm{No.}~6$ are used.	Nuts
D—Per set of 90	
OVAL HEAD WOOD SCREWS	
No. 63	
For screwing Brackets to Rails. 5% No. 7.	
Per set of 90 Per dozen	\$0.12 .02
Oval Head Wood Screws, 11/8 No. 7.	
B—Per set of 90	. 18
SPECIAL ROUND HEAD WOOD SCREWS	
(WITH LARGE HEAD)	
No. 64	
For screwing Spring Rail to Bracket.	
A—Per dozen Each	.08
ROUND HEAD MACHINE SCREWS	
For screwing Spring Rail to Bracket, 7/8 No. 8, 32	pitch.
B—Per dozen	.08

MADE IN CANADA

.01

In

Each....

We can procure any other screw at the lowest price, ordering send sample.

UPRIGHT ACTION BRACKETS



No. 65



Style 1

Style 2

.30

Style 1—Nickel plated, drilled and bushed for Abstract Action. In standard or stock sizes. Per set of four..... \$1.20 Each Style 2--Per set of four..... 1.00 Each....

Brackets made specially to order will be charged extra. In case brackets are broken if they are sent to us we can use them as patterns.

Estimated price from \$1.50 to \$2.50 each. This work is charged by the hour at 50 cents per hour.

TOP BRACKET BOLTS



No. 66

BOTTOM BRACKET BOLTS



No. 67

3/8" in diameter	, in lengths	3",	31/2",	4",	$4\frac{1}{2}''$,	5",	per set	
of four.								\$0.20
Each								.06

UPRIGHT PIANO HAMMERS







No. 68

Double Coat F.F. Quality Felt, per set	\$6.50
Single Coat F.F. Quality Felt, per set	6.25
Double Coat 1st Quality Felt, per set	5.25
Single Coat 1st Quality Felt, per set	5.00
Double Coat 2nd Quality Felt, per set	4.25
Single Coat 2nd Quality Felt, per set	4.00

In ordering Hammers send us the first and last Hammer of each section and leave the Shank in the Hammer. This is for the purpose that we can bore the new Hammer exactly the same slant. State how many notes are in each section.

Also specify if the old Shanks are to be used again, so that we can make the hole of the proper size to fit Shank. If new Shanks are required specify this in the order. If the Hammer Butts are to be rebored, that is, the old Shanks taken out, send us the Butts and we will rebore them.

Per set......\$0.75

We carry an inexpensive Hammer Shank extractor in stock as shown on page 116. With this tool the Hammers

can be taken off without damaging the Shanks.

UPRIGHT PIANO HAMMER SHANKS

No. 69

										7	_			Ĩ	٦	Ĩ	*				
In Maple,	per	set	of	95														\$().	50	0
Per dozer	1				 															10	0
In Cedar,	per	set	of	95	 	 														7.	5
Per dozer	1																			1.	5

DOWELLS FOR TRAP WORK, ETC.

We carry the following sizes of Dowells in stock, in lengths of about four feet. If special lengths are wanted specify them.

$\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", per dozen	\$0.60
Each	.06
5/8", 3/4", per dozen	
Each	.07



Maple or Birch. Price on larger quantities on application.

COVERED BASS STRINGS



-Wrest or Agraffe Pin Line.

No. 71

Bridge Pin Line.Hitch Pin Line.

MADE IN CANADA

COVERED PIANO BASS STRINGS

How to Order.

If a single string is required send the old string or the next one to it, and state if the next larger or smaller size is wanted

If a full set is required send an impression on a sheet of strong paper. Also send the both end strings. To take the impression take a strong piece of paper, stretch it firmly over the strings then press the paper over the Hitch Pins, also over the Bridge Pins and the Wrest or Agraffe Pins. Be sure that these impressions are accurate and that the paper is not shifted while the impression is taken. Also mark where the covering begins and ends.

If the entire old set is sent the impression is not necessary. In sending the old strings tie them in the manner as they were in the piano.

were in the plane.	
Price for single string with Iron Wire Covering, small	
size, each	\$0.15
Large size, each	.20
With Copper Wire, small size, each	. 20
Large size, each	.25
Price for entire sets, with all Iron Wire Covering	3.75
With part Copper Wire Covering	4.00
With all Copper Wire Covering	4.50

MUSIC WIRE

No. 72

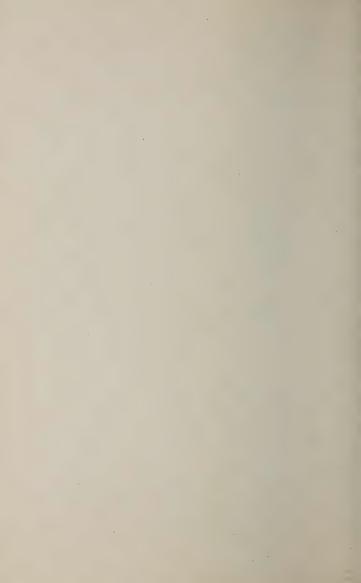
In quarter-pound	coils,	Red	Cross	brand,	sizes	from	
No. 9 to No	o. 22, p	er co	il				\$0.25

Other sizes can be secured at short notice. Price on application.

POEHLMAN WIRE

In	quarter-pound	coils,	sizes	from	No.	7	to	No.	26,	
	per coil									\$0.40

Other brands secured at shortest notice. Price on application.





GRAND PIANO ACTIONS PARTS

AND

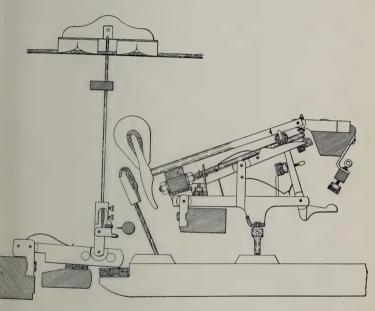
HARDWARE

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE





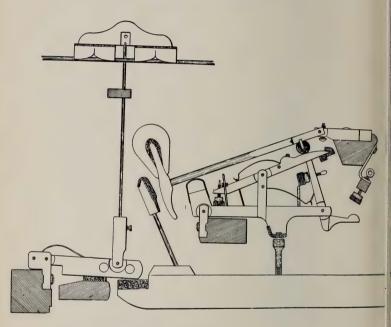
GRAND PIANO ACTION



No. 100

Style 1—With sustaining Damper Action, also furnished with Lost Motion Attachment. Price on application.

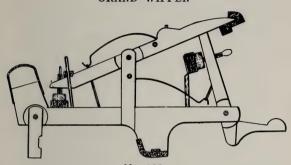
GRAND PIANO ACTION



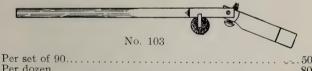
No. 101

Style 2-Price on application.

GRAND WIPPEN



GRAND HAMMER SHANK (WITH FLANGE)



 Per dozen.
 80

 Each
 10

 Flanges only, per set of 90
 2.50

 Per dozen.
 50

 Each
 07

When ordering send sample.

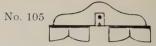
GRAND BACK CHECK (WITH WIRE)

No. 104

Per set of 90	\$2.75
Per dozen	. 55
Each	.07

In ordering give length over all.

GRAND DAMPER HEAD



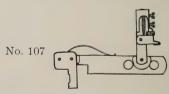
GRAND DAMPER WIRE

No. 106

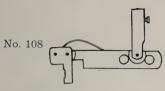
Per set of 7													
Per dozen.	 											 	.15
Each	 ~									 			.02

GRAND DAMPER LEVERS

WITH BLOCKS AND FLANGES



Style 1—With sustaining attachment, per set of 70	\$5.20
Per dozen	1.10
Each	
Flanges only, per set of 70	
Per dozen	.60
Each	.10



Style 2—Per set of 70	\$4.75
Per dozen	1.00
Each	
Flanges only, per set of 70	
Each.	.10

GRAND ACTION RAIL



Bored to Scale, each......\$0.75

GRAND WIPP RAIL



Bored to Scale, each \$0.60

GRAND DAMPER RAIL

No. 111

Bored to Scale, each \$.60

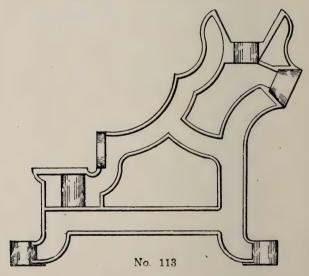
GRAND REGULATING RAIL



Bored to Scale, complete with screws, buttons and punching each.....\$0.95

GRAND ACTION BRACKET

NICKEL PLATED ON EDGES, DRILLED AND TAPPED COMPLETE, INCLUDING SCREWS.



GRAND DAMPER ACTION BRACKET	
Standard sizes, per set of four	\$0.80
Each	.25
GRAND REPETITION HOOK	
400000	
Ų	
No. 114	
	\$0.25
Per dozen	.05
GRAND REPETITION LEVER BUTTON SCRE	w
No. 115	
Per set of 90	
Per dozen	.05
The same screw is used on the Jack.	
GRAND REPETITION SPRING SET SCREW	
Vocacount.	
No. 116	
Per set of 90	\$0.25
Per dozen	.05
GRAND REGULATING RAIL BRACE	
N 117	
No. 117 Per dozen	\$0.45
Each	.05

GRAND BUTT FLANGE LET OFF SCREW

(|mmmmm=

~ ~			
No.	-1	-1	0
TAO.	- 1	-1	\circ

Per set of	90		v.														\$0	40
Per dozen.			٠,															10

GRAND CAPSTAN SCREWS



No. 119

In ordering specify which size.

GRAND ACTION SPOON



No. 120
Per set of 90. \$0.45
Per dozen. 10

GRAND ACTION BUTT SCREWS

1" No. 10 FILLISTER HEAD

No. 121

The screws used on Wipps and Damper Levers are the regular Action Screws, 34 No. 8, shown on page 49.

GRAND ACTION WASHERS

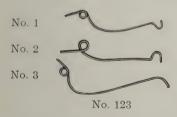
USED IN BUTT FLANGE



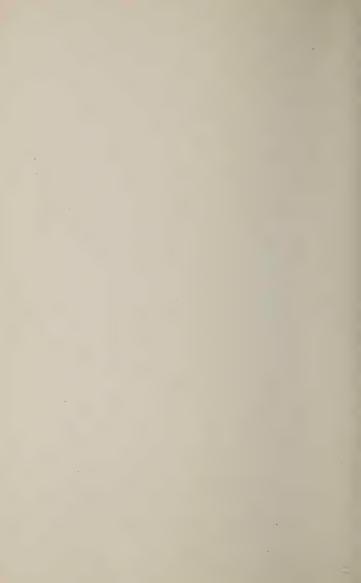
No. 122

Per set of 90	. \$	0.50
Per dozen		.10

GRAND ACTION SPRINGS



No. 1—Spring used for Jacks, per set of 90 Per dozen	\$0.60
No. 2—Spring for Repetition Levers in three sizes of wire, strong for bass section, medium for middle	
section, weak for treble section, per set of 90 Per dozen	.60
In ordering specify which.	•10
No. 3—Spring used on Damper Levers, per set of 35 Per dozen	.25





SQUARE PIANO ACTION PARTS

ALL PRICES SUBJECT TO CHANGE
WITHOUT NOTICE



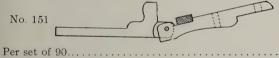


SQUARE ACTION BUTTS AND FLANGES



Per set of 90	\$5.25
Per dozen	. 90
Each	
Butts only, per set of 90	3.00
Per dozen	
Each	
Flanges only, per set of 90	
Per dozen	
Each	.05

SQUARE ACTION JACKS AND FLYS



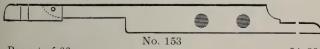
Per set of 90	
Per dozen	.75
Each	.10

SQUARE ACTION BACK CHECKS

No. 152

Per set of 90	\$1.25
Per dozen	 .25
Each	 .05

SQUARE ACTION DAMPER LEVERS WITH FLANGES



Per set of	66	 		 					 						 	. \$4.00	
Per dozen		 							 						 	70	
Each		 													 	10	

SQUARE ACTION DAMPER HEADS

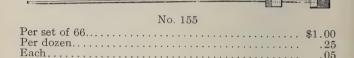


No. 154

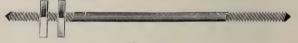


Per set......\$1.50

SQUARE ACTION DAMPER LIFTERS



SQUARE ACTION PROPS



No. 156

 Per dozen
 \$0.25

 Each
 .03

SQUARE ACTION JACK SPRINGS

WITH CORDS

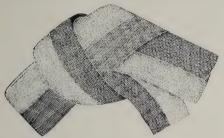


No. 157

 Per set of 90...
 \$0.60

 Per dozen.
 15

BUFF STOPS FOR SQUARE PIANOS



No. 158

SQUARE ACTION HAMMERS

MADE TO ORDER ONLY.

No. 159

SQUARE HAMMER SHANKS

No. 160

1,0, 100	
In Maple, $\frac{7}{32}$ ", per set of 90 \$	0.50
Per dozen	.10
In Cedar, per set	.75
Per dozen	.15

SQUARE PIANO KEYS

No. 161

Re-covered with celluloid tops and fronts or ivory. Price on application.

In ordering send the frame with keys complete and specify what is desired.





UPRIGHT AND GRAND PIANO KEYS

AND

ACCESSORIES

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE







UPRIGHT PIANO KEYS

MADE TO ORDER ONLY

How to Order-

Send wooden rod showing the centre of each note on the striking line. Give distance from front of key to striking line in bass and treble end.

Send us a front rail punch, balance rail punch and a piece of the cloth which you intend using under the back end of key. This enables us to determine the

height of balance rail.

We make all our keys for a ¾" touch unless otherwise specified. Our standard front rail is $3\frac{1}{2}$ " wide and $\frac{1}{16}$ " on the front and $\frac{1}{16}$ " on the back. Our standard back rail is ½" thick.

Rules to determine the correct distance from front of key to balance rail pin (natural key):—

Divide the key from front of ivory to the striking line into five equal parts.

The proper place for the balance rail pin is three parts from the front, leaving two parts to the striking line. This is the recognized standard division. If a lighter touch is desired the pin can be placed nearer the striking line.

State how many cross rails are required, and mark the exact position of

them on the Scale Stick.

On pianos where the key bottom is framed the cross rails should come right in the centre of the cross rails of frame.

State quality of ivory desired. State if sharps are to be polished or with natural finish.

State if pine or basswood is to be used for the board.

If key block is required give thickness of same. Prices on application.

It requires about three weeks from the time the order is received before shipment can be made.

PIANO KEY IVORY



No. 201

IVORY HEADS

In sets complete (Heads and Ta	ails).
No 1 quality, per set	\$10.85
No. 2 quality, per set	
No. 3 quality, per set	8.90
No. 4 quality, per set	8.25
Heads only. Quality No. 1. No. 2.	No. 3. No. 4.
Per dozen \$2.05 \$1.90	\$1.75 \$1.65
Each	.16 .15

IVORY TAILS



No. 202

Tails only.	Quality	No. 1.	No. 2.	No. 3.	No. 4.
Per dozen		\$1.20	\$1.00	\$0.90	\$0.85
Each		.111/2	.10	. 09	$.08\frac{1}{2}$

PRICES ON IVORY ARE CONSTANTLY INCREASING.

PIANO SHARPS



No. 203

A—Polished on top and front, per set of 36	\$1.40
A—Per dozen	
A—Each	
B—With natural finish, per set of 36	1.00
B—Per dozen	
B—Each	.05

KEY BUTTONS

BUSHED WITH SCARLET CLOTH



Style 1—Per set of 90	\$0.60 .12
Style 2—Per set of 90	\$0.50

KEY PINS

OVAL FOR FRONT RAIL.

No. 205

Per set of 90..... \$0.60 Per dozen.... . 12

No. 206

ROUND FOR BALANCE RAIL. Per set of 90 \$0.60 Per dozen.... .12

KEY LEADS

No. 207

In three sizes—3/8", 7/6", 1/2". There are 57 of the 3/8" Leads in one pound. There are 44 of the 7/6" Leads in one pound. There are 35 of the 1/2" Leads in one pound. Per pound \$0.10

KEY PUNCHINGS



FOR FRONT RAIL.

First quality, per set of 90	\$0.25
Per dozen	.06
Second quality, per set of 90	.20
Per dozen	.05



FOR BALANCE RAIL Per set of 90.... \$0.10 Per dozen .03 PAPER PUNCHINGS FOR FRONT RAIL No. 210 Tissue, No. 1, per gross Manılla, Nos. 2-5, per gross \$0.03 .04Cardboard, thin, Nos. 6-9, per gross..... .06 Cardboard, medium, Nos. 10-13, per gross08 Cardboard, thick, Nos. 13-17, per gross..... .10 PAPER PUNCHINGS FOR BALANCE RAIL. No. 211 Tissue, No. 21, per gross..... \$0.03

KEY BOLSTER CLOTH

.04

.05

.06

For Under Back of Keys. No. 212

Paper, No. 22 and 23, per gross.....

Manilla, 24 to 26, per gross

Cardboard, No. 27 to 29, per gross.....

KEY BUSHING CLOTH

No. 213

It requires one strip to bush the front holes of one keyboard, and one strip and a half for one set of buttons.

GRAND PIANO KEYS

No. 214

How to Order

The same rules apply as on Upright Keys with the following addition, viz.: Send a sketch showing the striking line and the end of the key and how it is to be rabbitted for the felt of the Damper Action Levers, also show the back rail of the key frame.

Price on application.

It takes about three weeks from the time the order is received before shipment can be made.

CELLULOID FOR PIANO KEYS

No. 215

	LOI	112	HEL) (N	OI	NE.	S	TD	E.				
For Tops, 6 sets											 			\$6.00
Each													 	1.25
For Fronts, 6 sets	·			٠.									 	. 90
Each											 		 	.20

CELLULOID CEMENT

No. 216

D			1	. 1							7.4	0	_	т,	J								
Put	up	1n	DOT	ttles	,	pe	er	1		p1	nt								 				\$0.50
Per	1/	nin	+							1													20
1 01	/2	Piri							*							٠		٠					. 30

REPAIRING PIANO KEYS

No. 217

We re-cover old or damaged keys with Ivory or Celluloid, and re-bush the same, re-polish sharps, etc.

Always send the frame with the keys on. Price on application.

CELLULOID STRAIGHT EDGES

No. 218

48" long, 2" wide, with Pine or Maple centre	\$1.00
From 18" to 22" long, 1 1/2" wide, each	40
From 23" to 26" long, 11/2" wide, each	50





REED AND CHURCH ORGAN KEYS REEDS, REEDBOARDS

AND

ORGAN SUPPLIES

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE





THE DISCOLORATION OF ORGAN KEYS

We have proved to our entire satisfaction that the cause is with the player, that is to say, the acids in the perspiration from the hands coming in contact with the keys form a deposit on them, and a chemical action takes place and produces the discoloration. It does not penetrate to any extent and is readily removed by taking a little pumice stone powder, then take a soft piece of canton flannel and dampen it with water and rub until the keys are clean and white. It takes a little time to clean in case the keys are very bad, but if the keys are wiped off with above once in a while, and kept clean, there should be no trouble. Care should be taken not to get the cloth too wet and allow the solution to get between the keys.

REED ORGAN KEYS



No. 250

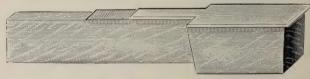
Covered with Ivory or Celluloid. Made in 4, 41/2, 5, 6 and 7 octaves. In ordering state what length the key is to be, also how far the frame is to stick out at the sides. Our Standard frame projects 1½" on each side.

When Double Bank Keys are required send us a sketch

showing the length of key top and bottom.

Price on application.

OTTO HIGEL CO. PATENT ORGAN KEYS



The above illustration shows our patent Organ Key Top with hardwood veneer.

This key is far superior over the old style of key without the hardwood veneer, because it does not sink in over the mortise hole or become dished.

ORGAN KEY SHARPS



No. 251

Per dozen		 												 				\$0.	2	4
Each																			. 0	3

CHURCH ORGAN KEYS

No. 252

Made to Order only. With Ivory or Celluloid Covering.

How to Order

Send wooden rod showing the centre of each note on back of key.

Send a sketch showing the side view of key and full

particulars.

If frame is desired show shape of cheek, etc., also state what kind of wood is desired.

State what No. of Ivory is to be used.

State if key is to be made in A or C scale, in other words, if the bass end of the key is to begin with A or C.

Price on application.

ORGAN REEDS

No. 253



No. 1-Perfection Reed.



No. 2-Diapason Reed.



No. 3-Wide Tongue Cello Reed

110. 5 Wide Tongue Ceno Reed.
Per Octave
Each
The above prices do not include tuning or voicing.
For tuning and voicing extra, per octave
Each

ORGAN REEDS

In ordering odd Reeds to be tuned and voiced send the corresponding Reed one octave above or below.

We also keep in stock the following Reeds: Piccolo, Flute, Cello, Trumpet.

SUB BASS REEDS

No. 254

No. 1—Each \$0.	. 15
Per set of 13	. 85
No. 2—Each	.20
Per set of 13 1	.00
	.30
Per set of 13 3	.00
	.30
Pedal Bass, 30 notes	.00
	. 40
Sub Bass, per set of 13	. 50
	. 40
	.00
For retonguing any reed	. 25
,	
Jumbo Reeds, each	25
Per octave	. 25

In ordering odd Reeds send letter and number as per chart shown on next page.

OTTO HIGEL COMPANY ORGAN REED CHART

FOR THE USE OF ORGAN MANUFACTURERS

	C29 C#29 D29 D#30 E&F30 7th Octave	6 6th Octave	The same of the sa	² 5th Octave				
	D#30 E&F	D#26 E26	D#22 E22	_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 4	1	# D D D D D D D D D D D D D D D D D D D
	D29 1	D25	D ₂ 1		D17	D17	D17	D 9 D 5 D 5 D 5 D 5 D 5 D 5 D 5 D 5 D 5
	C#50	C#25	C#21		C#12	सें से	# # # # # # # # # # # # # # # # # # #	# # # # # # # # # # # # # # # # # # #
-	C29	C25	C21		C17		C113 C113 C 9	C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5
-	A#28 B28	4 B24	0 B20		B16	6 B16 2 B12	6 B 8 B 8	B B B B B B B B B B B B B B B B B B B
-	A#2	A#24	A#20		A#1	A#16	A#12 A#18 A#18 A#18 A#18 A#18 A#18 A#18 A#18	A A # # A A A # # A # # A # # A # A # A
	G#27 A28	A24	A20		A16	A16 A12	A16 A12 A 8	A 4 A 4
	G#27	G#23	6#18		G#15	# # # # # # # # # #	# d # 1	# # # #
	G27	G23	G19		G15	G15	G115 G111 G 7	G115 G11 G 7 G 7
	F#2	F#28	F#18		F#15	F#16	F#115	
	F26	F22	F18		F14	F14	F14 F10 F.6	F114 F10 F3 8

to C28. In a six-octave double reed, keyed on F, the diapason runs from F3 to F26, and the principal from six-octave, double reed, keyed on C, the diapason runs from C2 (16ft. C) to C25; the principal, C5 (8ft. C) EXAMPLES—An ordinary five-octave diapason runs from F3 to F22; a principal, F6 to F26 F6 to F26, and from F#23 to F26 is repeated for a sixth octave.

ORGAN REED BOARDS

Made to Order only.

No. 255

Our standard sizes for Single, Single Celeste, Bourdon Celeste, Plain Doubles, Double Celeste, Triples and Four Setters is $18\frac{1}{2}$ " by $38\frac{1}{2}$ ". For all special sizes of Reed Boards a sketch showing position of the different sets of Reeds, distance of pitman hole, etc. must be sent.

Price on application.

ORGAN OCTAVE COUPLERS

FIVE OCTAVE.

ORGAN STOP KNOBS



No. 257

Beveled or straight, without cel	lluloid face plates, per
_ dozen	\$0.40
Each	

CELLULOID FACE PLATES

No. 258	
Celluloid face plates, per dozen	.40
Each	.05

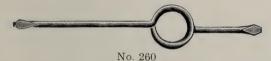
We carry the following in stock:—Principals, Melodia, Diapason, Celeste, Flute, Piccolo, Piano, Vox Humana, Aeolian, Dulcet, Dulciana, Tremolo, Bass Coupler, Treble Coupler.

COUPLER BUTTONS

No. 259

Complete with Screws, price	per	100	\$0.80
Per dozen		• • • • • • • • • • • • • • • • • • • •	.15
Per dozen			.12

ORGAN REED HOOKS



ORGAN BELLOW SPRINGS



111/2" Long, 16 Pounds Pressure.

Each..... \$0.15

FEEDER SPRINGS

8" Long, 6 Pounds Pressure.

No. 262

Each,\$0.07½



ORGAN KEY PINS

ROUND.



No. 267

	1b. (268																. 7	75
Per	dozen		 							 			 ٠				. 1	0

PITMAN ROD

No. 268

Cedar—Per 1,000 feet	00
Per 100 feet	
Per 25 feet	
Pine—Per 1,000 feet	
Per 25 feet	

ORGAN PEDAL WEBBING

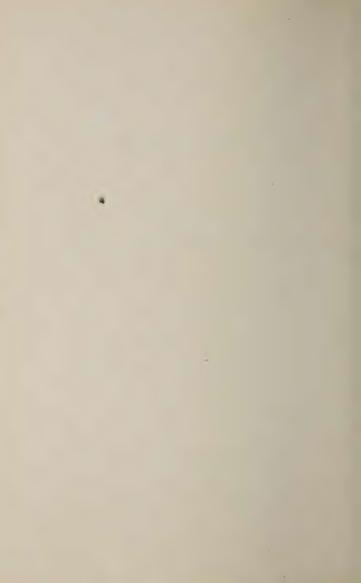
No. 269

In rolls from 50 to 75 yards, per yard	\$0.03
Per dozen yards	. 50
Per one yard	.05

ORGAN RUBBER SHEETING

No. 270

Per yard..... .60



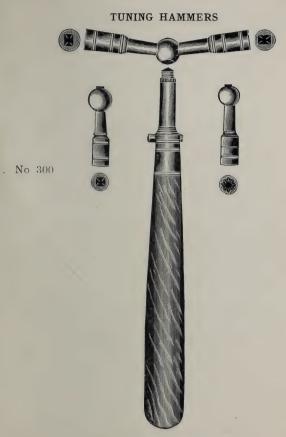


PIANO TOOLS AND SUPPLIES

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE







No. 1 Quality (Guaranteed).

15" open, 10" closed (Rosewood handle with extension rod), one double oblong head, one single star head, one single square head.....\$16.00

TUNING HAMMER HEADS

No. 300

Α	First	Quality, single star head	\$3.60
В	"	Quality, single square head	3.00
С	6.6	Quality, double square head	5.00
D	"	Quality, double oblong head	5.00
Е	"	Quality, extension rod only	2.00
F	4.6	Quality, Rosewood handle only	3.00

We can also procure to order only, Tuning Hammers with hard rubber handle. Price on application.

All our Tuning Hammer heads are made to fit the standard German tuning pins. Special sizes made to order only. Price on application.

We can also supply the Mueller Tuning Hammer, with Aluminum or Rosewood handle.

TUNING HAMMER



No. 301

Rosewood handle, with extension Rod, one double oblong and one single star head..... \$6.50

TUNING HAMMER



No. 302

Rosewood handle, with stationary bar and head, with star hole on one and oblong hole on other end. \$3.25

TUNING HAMMER



No. 303

With Walnut Handle and Stationary Bar.

A-With	star head	\$3.00
B—With	square head	2.60

We have two sizes in the square head. When ordering send a turning pin or a piece of wood of the size required.

With R	osewood	handle,	extra	\$1.0
--------	---------	---------	-------	-------

TUNING PIN EXTRACTOR TUBES



No. 304



No. 305

Rosewood handle for same	2.65
Stringing Hammer Tubes, with either square or oblong	
hole	2.60

TUNING OR STRINGING HAMMERS



No. 306

Tuning or Stringing Hammer, with stationary handle	
with either square or oblong hole, oil finished	
First quality	\$2.00
Second quality	.75

STRINGING CRANK



No. 308

TUNING PIN DRILLS

In sizes from 1-0 to 3-0, each	\$0.48
Per dozen	5.25

TUNING PIN BITS

(SPOON SHAPE)



No. 309

For braces with square shank, in sizes from 1-0 to 3-0	
Each	
No. 0	
No. 000	

No. 310

For chuck with round shank, in sizes from 1-0 to 3-0,	
each	. 50
Per dozen	5.50

To Secure the Best Results

Tuning pin holes should be bored with Drill No. 308 first and rebored with Spoon Bit. The Drill must be at least two

sizes smaller than the Spoon Bit.

The above is the most approved method, because the holes are not liable to be burned on the second operation, there being very little stock to remove. If a light coat of varnish is applied in the holes and allowed to dry for 24 hours it will be found beneficial, as it prevents the tuning pin from jumping.

TUNING PIN PUNCH



No. 311 Price... \$0.65

PUNCH FOR BROKEN TUNING PINS

No. 312

PUNCH FOR MARKING TUNING PIN HOLES No. 313

Price

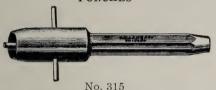
COMBINATION HOLDER FOR TUNING PIN AND STRINGING



No. 314

A new tool which has proven very successful..... \$1.30

PUNCHES

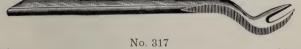


For Balance Rail, $\frac{1}{2}$ diameter. \$3.75 For Front Rail, $\frac{3}{4}$ diameter. 4.45



No. 316 For Regulating Rail Punchings... $\frac{5}{16}$ ", 45c. $\frac{3}{8}$ ", 85c.

STRING LIFTERS



Price..... \$0.45



No. 318

TUNING FORKS

CONCERT OR HIGH PITCH



No. 319

110.010	
1—Steel, in key of A or C	\$0.25
2—Blued steel, in key of A or C	
3—Blued steel, Philharmonic, in key of A or C	.45
4—Blued steel, International or low pitch, made by	
Valentine & Carr, adopted by the Piano Manu-	
facturers' Association as the standard interna-	
tional Pitch, stamped on each Fork, A or C	60

TUNING WEDGES



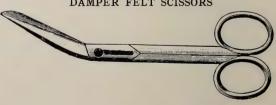
No. 320



No. 321

For Uprights...... \$0.35

DAMPER FELT SCISSORS



No. 322

FELT PICKERS





Price . . . \$1.50



Price.... \$1.35

This Felt Picker is for pocket use, the little cap screws on the end.

We can make any other style of Felt Picker desired on short notice. Prices on application.

WIRE GAUGES

FOR MUSIC WIRE.

Nc. 330



Price. \$2.10



Price... \$2.10.

POCKET SCREW AND WIRE GAUGE





Front View

Back View.

Price.... We can also supply Twist Drill and Stubs Steel Wire Gauges.

TUNERS' POCKET GLUE POTS



No. 334



HAMMER SHANK BURNING LAMPS



No. 335

Price . .



No. 336

Price . . .

VEST POCKET HAMMER SHANK BURNING LAMPS



Price... \$0.50



Price.....

LIQUID GLUE HOLDER



No. 339



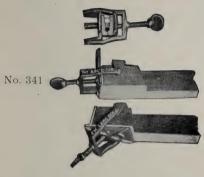
Price. \$0.40

PIANO GLUE POTS

No. 340

Tin with Copper Boilers complete including lamp.... \$1.90

IVORY GLUING CLAMPS



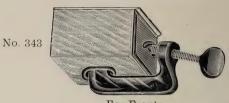
Each				 													\$0.40
Per dozen	 			 						. ,							4.25

IVORY GLUING CLAMPS



											1										
Each	ŀ																				\$0.30
Per dozen	k																				3.00

IVORY GLUING CLAMPS



For Fronts.

Each		 												. ,					\$0.25
Per dozen		 																	2.75

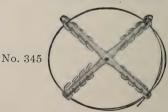
STEEL SPRINGS

FOR HOLDING IVORY OR CELLULOID WHILE BEING GLUED



Each																\$0.10
Per dozen																1.00

MUSIC WIRE REEL



Price.... .. \$1.10

REED FILES



No. 346 WITH SAFE EDGES

00, 0, 1, per dozen..... \$1.80 Each We can also supply taper saw file of any make or length

TOOTHING IRONS

at lowest prices.



No. 347

In ordering state if fine, medium or coarse teeth are wanted

IVORY FLOATFILES



No. 348

Each

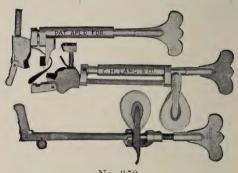
WOOD AND IVORY SCRAPERS



No. 349

Each

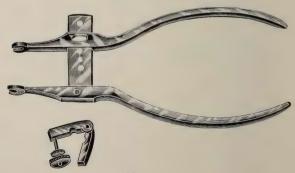
HAMMER SHANK EXTRACTORS



No. 350

Per set.... \$3.75

HAMMER SHANK EXTRACTORS



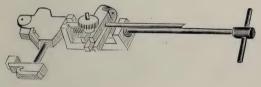
No. 351

. \$3.25 Price....



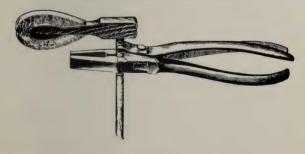
No. 352

Price.... \$1.90

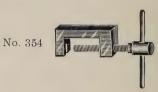


Price.... \$1.90

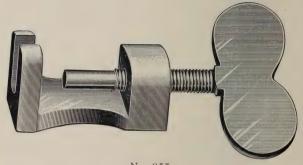
HAMMER SHANK EXTRACTOR



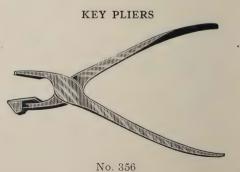
No. 353



Price.... \$0.70



No. 355 Price..... \$0.75



Price....

PARALLEL REGULATING PLIERS



No. 357

REGULATING PLIERS



No. 358

DUCKBILL PLIERS



COMBINATION PLIERS AND CUTTERS



No. 360

Price

FLAT NOSE PLIERS



5" Long.

DOWELL WIRE BENDING PLIERS



No. 362

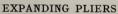
9" Long.

Price...



6" Long.

Price..





Price....

MUSIC WIRE CUTTING NIPPERS





-				1	VO	٠.	JU	U												
Price																				\$2 25
F	•							•	٠.	•	٠.	•	•	•	•	٠.	•	*		\$2.20
For extra	jaws,	per	pair.																	. 60



DAMPER WIRE NIPPERS



 Price
 \$2.00

 Extra jaws, per pair
 1.40

 Each
 .75

END CUTTING NIPPERS

Not for Music Wire.



No. 368 5" Long.

Price...... \$0.7



SPECIAL BACK CHECK PLIERS



Price.... Made to Order only.

TWEEZERS



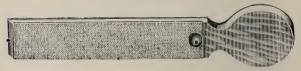
Total Indiana			
		No. 371	
6" long, per 7" long, per	pair		 \$0.55 .60

FELT! KNIVES



No. 372	
With 3½" blade	\$0.40
With 6" blade	.75
With 7" blade	
Blades only, $3\frac{1}{2}$ "	.30
Blades only, 6"	
Blades only, 7"	. 10

RUBY SANDPAPER FILE



No. 373 Price..... \$0.15

PIANO DRILL STOCKS



No. 374

Rosewood handle, Ivory pulley with 6 brass pads. Pads hold bits for Nos. 4, 5, 6, 7, 8, 9 bridge pins...\$12.50

DRILL BOWS

No. 375 Best quality, 23/4 feet long, without string...... \$1.45

BRASS PADS

FOR DRILL STOCKS No. 376

A—To hold drills	from Nos. 6	to 52,	each	 \$0.50
B—For drills $\frac{7}{32}$,	$\frac{1}{4}$, $\frac{9}{32}$, each			 .70
C-With counter	sink			 2.00

SCREW DRIVER HANDLES

Octagon. Rosewood.



5'', each \$0.18 $5\frac{1}{2}''$, each ... 20

ROUND HANDLES

No. 378

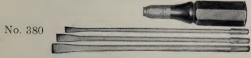
FLAT HANDLES



Price..... \$.10

SCREW DRIVER

WITH HARD RUBBER HANDLE.



SCREW DRIVER BLADES

To FIT ORDINARY HANDLES

No. 381 A

$A - \frac{3}{16}'' \times 8'' \dots$	 \$0.35
$B - \frac{1}{4}'' \times 83/s'' \dots$. 45
$C - \frac{5}{16}'' \times 85\%''$. 60

SCREW HOLDER



No. 381 B

SCREW DRIVER

WITH ROSEWOOD HANDLE.



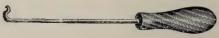
No. 382

5" handle 1/" 1	hlada	 . 40 55
$5\frac{1}{2}$ " handle		

SCREW, DRIVER WITH SCREW HOLDER



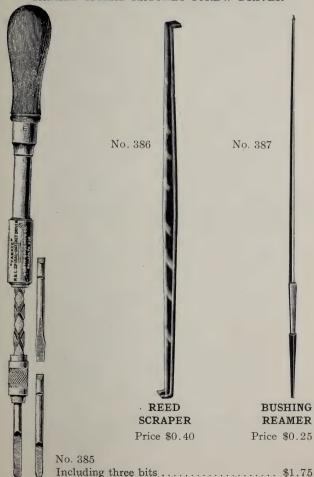
REPETITION LEVER HOOK



No. 384

For adjusting Action Springs.....\$0.25

YANKEE SPIRAL RATCHET SCREW DRIVER



OCTAGON REAMERS

No. 388

Price.... \$0.75

KEY SPACER

No. 389 7" Long.

Price \$0.60

DAMPER SPRING REGULATOR

ACCUPATION AND ADDRESS OF THE SECOND

No. 390

Price.....

BACK CHECK SPACER

No. 391 Bent.

Price.... \$0.35

SPOON BENDER

No. 392\$0.60

REGULATING SCREW DRIVER No. 393 Price.... \$0.55 ACTION REGULATORS No. 394 Price.... \$0.60 ACTION REGULATING IRONS No. 395 Price... No. 396 Straight. Price.... \$0.60 ACTION BOLT WRENCHES No. 397 Price.... \$1.15 No. 398

CAPSTAN SCREW DRIVERS



No. 399 \$0.55



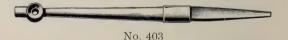
KEY REAMER



No. 401
Price.....\$0.45

No. 402

Price......\$0.4



Price..... \$0.75

DOUBLE HEADED SCREW DRIVER



No. 404

Price..... \$1.10

PUNCHING IRONS



No. 405

For driving out centre pins..... \$0.35

BLOCK PLANES



No. 406

.... \$0.25

ACTION SETTING BLOCKS



Per pair		\$2.00
Extra bolts	of different lengths, per pair	. 40

SNAIL COUNTER SINK BITS



No. 408

For	1/2"												•		_		ì			a	•													. q	0	1	1 1	
Don	1/11		•	٠	•	•	•	•	•	_	•	•	•	•	•	•	•	•	•	•	•		•	•	•	• •	•	•	•	•	٠	•	•	:11	()			-
For	38.	٠.		٠										٠																						. 2	2(į
For	3/4".																		_																	6)!	å
	′ '																															ш	ш			ш	-	

ROSE COUNTER SINKS

For Iron

For	1/2".		 						 	 				 						30
T. OI	78 .		 							 										40
For	$\frac{3}{4}''$.		 							 				 						50

KEY BUSHING PLUGS



No. 409

In iron, each	\$0.25
Per dozen	0.50
T	4.00
In wood, each	.05
Per dozen	. 50

KEY PLIER JAW



No. 410

Can be used with an ordinary plier \$0.40	Can	bе	used	with	an	ordinary	plier											\$0.4	0	
-------------------------------------------	-----	----	------	------	----	----------	-------	--	--	--	--	--	--	--	--	--	--	-------	---	--

FLANGE PIN HOLDER



No. 411

Holding six sizes, filled with G.S. Centre Pins, three dozen of each size......\$2.30



No. 412

Aluminum case with cover, holding 12 sizes, filled with G. S. Centre Pins, three dozen of each size.... \$1.85



No. 413

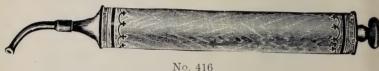
Six cardboard boxes filled with G. S. Centre Pins, three dozen of each size......\$0.90

No. 414

PIANO BELLOWS



14" cylinder..... \$1.75



TRAP SPRINGS



110. 411					
4", per dozen,	\$0.20				
Each	.05				
5", per dozen	.30				
Each	.07				

COIL TRAP SPRINGS

No. 418

$2\frac{1}{2}$ " long, $\frac{11}{17}$ "	wide,	per dozen.	* * * * * * * * * * * * * * * * * * * *	 \$0.50
Each.,.,,				 .10

TUNING PINS BLUED.



No. 419

Per Package of 250.

0	21/4"	long																			\$1.00
00	$-2\frac{1}{4}''$	long																			1.00
00	$-2\frac{1}{2}''$	long												٠,							1.05
000	$-2\frac{1}{2}''$	long																			1.25
0000	$0-2\frac{1}{2}''$	long														 					1.50
Nicl	kel plate	ed to	ining	10	in	S.	100	er	T	a	ck	a	yе			 	E	x	tr	a	1.50

GLASS PIANO INSULATORS



No. 420

Per set of four.... \$0.75

SOUNDING BOARD BUTTONS



No. 421

ORGAN CASTERS



No. 422

Wooden, per dozen \$0.20

BUTT HINGES



No. 423

Nickel plated, per pair \$0.10

DESK KNOBS

No. 424



WITH RUBBER BUTTON Per dozen..\$0.30



\$0.15



RUBBER HEAD NAILS

No. 425



Small. Per dozen.. \$0.08 Per gross... .50



Medium. .10 .65



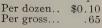
Large. -3 ' .12 .75

RUBBER BUTTONS

No. 426







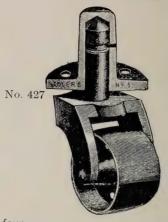


2
.10
.65



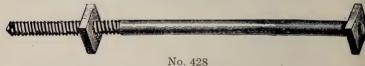
.75

PIANO CASTERS



Per set of four..... \$0.40

PEDAL PROPS



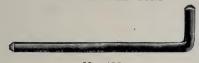
EYE SCREWS



 With 34" hole, per dozen
 \$...

 Each
 .02

DESK OR TRAP PINS



No. 430

Large, per dozen	 	 	 	 . \$0.09
Medium, per dozen	 	 	 	 07
Small, per dozen	 	 	 	 05

PUNCHING HOLDER



No. 431

Will hold about 1/4 gross of front rail punchings and about 1/2 gross balance rail punchings..... \$0.15

A very handy device for holding cloth or cardboard; balance and front rail punchings.

PIANO LOCK KEYS

No. 432

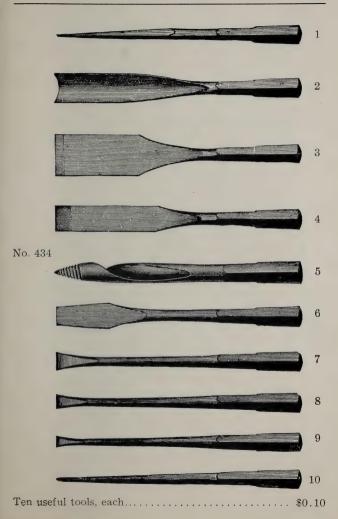
A—Square, per dozen	. \$0.20
Each	
B—Triangular, per dozen.	20



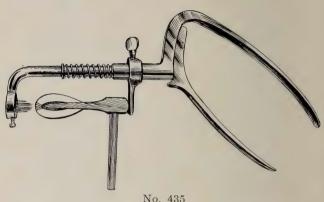
PATENT ADJUSTABLE TOOL HOLDER

No. 433

Complete with ten useful tools, shown on next page, including a seveninch saw..... \$1.75



TONE REGULATING TOOL

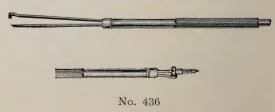


No. 435

Price \$4.75

With this tool one can regulate a set of hammers in the most scientific manner with the greatest ease and rapidity, preserving the walls of the hammer and picking the portion as shown in the cut, which rounds the tone and removes the metallic and rasping harmonies which are so prevalent in pianos.

SCREW DRIVER AND HOLDER



Price \$1.10



KING'S AUTOMATIC PIANO TUNING PIN AND STRING POLISHER

Price - \$5.00

No. 437



It will be interesting to know how many pieces a modern upright action contains. The cut on the opposite page represents all the action parts, being 7,390 pieces. The following is a list.

- 1 Action Rail. 1 Bottom Rail.
- Hammer Rail.
- 1 Spring Rail. 1 Regulating Rail.
- 3 Stop Rail pieces.
 1 Bass Damper Rod.
 1 Treble Damper Rod.

- 1 Trebie Damper Rod.
 6 Damper Rod Hooks.
 6 Damper Rod Nuts.
 6 Damper Nut Screws.
 9 Regulating Rail Props.
 9 Regulating Rail Prop Screws
- Hammer Rail Shell.
- 20 Hammer Rail Shell Screws.
- 4 Hammer Rail Hooks.

- 4 Hammer Rail Hooks Screw
 1 Hammer Rail Lifter.
 2 Hammer Rail Lifter Screws.
 88 Butt Flange Screws.
 88 Tongue Flange Screws.
 88 Tongue Flange Screws.
 88 Butt Plate Screws.

- 88 Butt Plates.
- 3 Brass Flange Sections.
- 68 Lever Screws.

- 08 Lever Screws.
 88 Regulating Screws.
 88 Capstan Screws.
 68 Damper Wires.
 68 Damper Block Sockets.
 68 Damper Block Socket Screws
 88 Back Check Wires.
 88 Bridle Wires.

- 88 Bridge Wiles.
 68 Spoons.
 88 Butt Centre Pins.
 88 Wipp Centre Pins.
 88 Fly Centre Pins.
 88 Tongue Centre Pins.
 88 Abstractin Wipp Centre Pins.
- 88 Tongue in Abstract Centre
- Pins.
- 88 Lost Motion Tongue Centre
- 68 Damper Flange Centre Pins. 68 pieces of cord in Damper
- Flange.
 68 Sustaining Wires in Levers.
- 68 pieces of Bushing on Sustain-
- ing Wire. 68 pieces of Bushing on Lifter Screws.
- 68 Sustaining Knuckles.

- 68 pieces of Felt for Sustaining Knuckles.
 - 68 Flanges for Sustaining
 - Knuckles. 68 Springs for Sustaining
 - Knuckles. 68 pieces of Bushing for Sus-
- taining Knuckles.
 136 pieces of Bushing for Sus-
- taining Flanges.
- 1 Sustaining Rail Hooks.
 2 Sustaining Rail Spring.
 3 Sustaining Rail Spring.
 3 Sustaining Rail Flanges.
 3 Sustaining Rail Flange Cush-
- 3 Sustaining Rail Flange
- Bushings.
 3 Sustaining Rail Flange
- Screws.
- 1 Sustaining Rail Lifter.
- 2 Sustaining Rail Lifter Screws
- 88 Jack Springs. 88 Rail Springs.
- 68 Damper Springs.

 1 Damper Rod Leaf Spring.

 1 Damper Rod Leaf Spring
 - Screw.

 - 1 Punch under Damper Rod Leaf Spring Screw. 1 piece of cloth under Damper Rod Leaf Spring Screw.
 - 6 pieces of felt under Damper Rod.
- 4 Action Brackets.
- 24 Bracket Screws.
- 4 pieces of Bushing in Brackets 4 pieces of Bushing in Brackets
 4 Spring Rail Screws.
 88 Reg. Rail Punchings.
 88 Butt Punchings.
 88 Damper Lever Punchings.
 28 Bass Damper Plates.
 28 Bass Damper Blocks.
 28 Bass Damper Wedge Veneer

- 28 Bass Damper Back Strips.
- 56 Bass Damper white Felt pieces.
- 56 Bass Damper scarlet Felt pieces. 40 Treble Damper Heads.
- 40 Treble Damper Blocks

40 Treble Damper white Felt.40 Treble Damper scarlet Felt.

88 Bridle Leather Tips.

88 Bridle Straps. 88 Back Checks.

88 Back Check Felt Pieces. 9 Stop Rail Screws.

3 pieces Stop Rail Felt.

88 Butts. 88 pieces Butt Leather.

88 pieces under Butt Cloth. scarlet.

88 pieces under Butt Cloth. white.

88 pieces Butt Felt.

176 pieces Butt Bushing. 88 Butt Shanks. 88 Butt Dowells.

88 Catches.

88 pieces Catch Leather.
88 pieces Catch Leather.
68 Damper Levers.
68 pieces Damper Lever Cloth.
136 pieces Damper Lever Flange Bushing.

88 Wipps.

88 Wipp Flanges.

178 pieces Wipp Flange Bushing 88 Abstracts.

88 pieces cloth under Abstracts.

88 pieces Bushing in Abstracts. 88 Tongues.

88 pieces of Bushing in Tongues. 88 Tongue Flanges.

176 pieces Tongue Flange Bush-

ing.
88 Lost Motion Tongues.
88 Lost Motion Cushings under

Wipp. 88 pieces cloth on Lost Motion

Tongues. 88 pieces Bushing Cloth in Lost

Motion Tongues. 176 pieces Bushing in

Motion Wipps.

1 piece of Hammer Rail Cloth,
1 piece of Spring Rail Felt.
88 scarlet Punchings under
Jack Springs.

88 Regulating Buttons. 9 pieces for Lost Motion attachment.

1 Lost Motion Rod.
4 Lost Motion Hooks.
4 pieces of Hammer Rail

Cushings.

88 Flys. 88 Fly Flanges. 176 Fly Flange Bushings. 4 Punchings in Shell of Hammer Rail.

Total-7390

MEMORANDA
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MEMORANDA

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